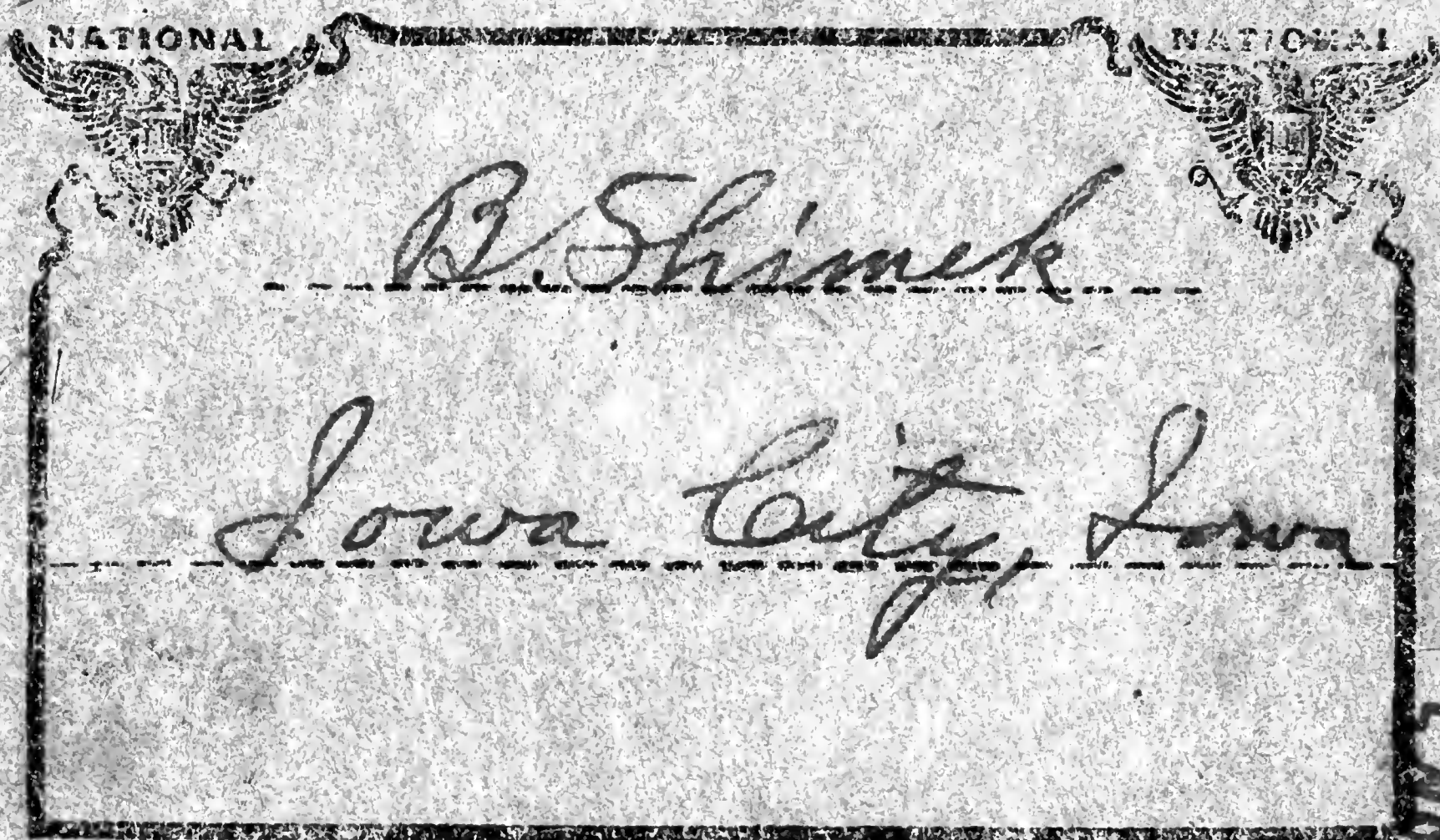


O.K.

1921

MCGREGOR AUG
CLEAR LAKE. Sep
MASON CITY Sep



Reward for return
of this book!

KOSSUTH CO.
PALO ALTO CO.
CLAY CO.
OSCEOLA CO.

LYON CO.
JOY CO.
BLAIR bridge
MID VALLEY
~~ADDISON~~ CO. SHELBY CO

BAYFIELD
FRUITLAND
LIST OF PLANTS FOR SECTIONS.
MCGREGOR PROGRAM.
MCGREGOR PLANTS

Genus
 Sanguinaria
 Hepatica
 Trillium
 Hydrophyllum
 Utricularia
 Lullularia
 Linum
 Asplenium (Linn.)
 Amorphia (deformed)
 Petalostemum (stem & petals united)

Species

Cultivated

Dahlia
 Gladiolus
 Narcissus
 Aquaryllis
 Lobelia
 Camelia
 Salvia
 Cyclamen
 Verbena
 Clematis
 Ageratum
 Spiraea
 Chrysanthemum
 Asparagus
 Abutilon
 Agave
 Azalea
 Begonia
 Catalpa
 Iris
 Rhododendron
 Wisteria

Native

Anemone
 Croton
 Hepatica
 Hydrangea
 Lobelia
 Magnolia
 Oxalis
 Phlox
 Lassafras
 Spiraea
 Trillium
 Yucca

Modified Scientific

Alyssum (Sweet)
 Phlox (Perennial)
 Asparagus (Fern)
 Aster (Wild)
 Dandelion (Tox. plant)
 Gentian
 Helianthus
 Helianthus
 Juniper
 Tulip
 Lily
 Peony
 Rose
 Acornite

Wrong application

Geranium
 Nasturtium
 Syringa
 Aster
 Calla

Specific Name

Japonica (Cydonia)
 Oleander (Nerium)
 Clematis
 Maize (Grain) - Zea mays
 Calamus (Acorus)
 Tabacum (Nicotiana)

Mistaken common names

Rock Rose
 Grass for sedge
 Blue-eyed Grass
 Yellow-eyed Grass
 Bell-grass
 Dog-foot violet
 Water-lily
 Primula

Black Mulberry - Zaymura

To Mc Gregor, Ia. 1921

Sat, Aug 6

Left Iowa City at 2:55 PM for
 Cedar Rapids - A quiet, muggy, cloudy
 day.

To Toddville - the most common
 plant in Iowa is Asclepias
 verticillata in large patches
 Then Euphorbia corollata
 Occasional Liatris pycnostachya
 is almost out of flower.

Asclepias verticillata is common
 in large patches to Cedar Pt.
 Buchanan co -

Beyond Walker large patches
 of Pycnanthemum flexuosum in rather
 low places. The floral aspect
 white! Pycnanthemum flexuosum
 adds to effect.

after a $2\frac{1}{2}$ hrs. wait at
Portland we reached
McMurr at 1:06 am.
and put up at the Seaside
Hotel (the old Zimmermann).

Sun. Aug. 8, 1921

Arose at 9⁰⁰. Went up
to the cottage, and had
luncheon with the neighbors, the
Jaynes' of Decatur.

In the afternoon we had a
meeting as per program & I
responded to the address of
welcome by Dr. Walter, the
Mayor, & Miss Chabon.

In the evening the Union
Service was held at the
Methodist Church,
, and I read the

28th Chapter of Job.

Prof. Hovey read ~~an address~~
Dr. Oberholser gave an illustrated
talk on Economic Value of Birds.

A beautiful, clear, cool day.

Mon. Aug. 8, 1921

Arose at 6¹⁵ & went down, took
breakfast at lunch room.

Another fine, clear day. The
night was quite cold.

Went down the track towards
Pike's Peak. Climbed up on front
bluff, collecting material.

Also collected on top of Pike's Peak.
Then went down to Pictorial Rocks
through woods & collected plants
(see specimens)

Returned at noon.

In the afternoon the whole party went to the Tolant Pt. We walked along road & noted oaks, ashens, manzanita, etc. The prairie opening in woods on higher points is still good. This is an elevation of St. Peter H. & this evidently prevents development of ordinary forest trees. (Only a few *Q. Muhlenbergii* & *Q. macrocarpa* appear chiefly on lower.) The same also probably causes rapid loss of water. Result drying out, by sun & wind, no shelter, hence prairie.

Collected almost no plants. Returned for supper & in evening heard Kay. Harbor came in.

Tues., Aug. 9, 1921

This is "government day," and I have little to do, except to take up my work.

Went into deep woods on Heights towards St. Peter St. prairie opening. Collected deep woods plant, & then went to opening & collected plants.

After luncheon I worked on N. slope of Heights, in the woods S. of road.

Found a few mollusks, mostly under *Pop. grandidentata* sticks. Recall:

<i>Punctum pygmaea</i>	<i>Bifidaria contracta</i>
<i>Carychium exile</i>	<i>Strobilops rigo²</i>
<i>Zonitoides alboreus</i>	<i>Pyramidula attenuata</i>
<i>Helicodiscus parvulus</i>	<i>Polygyra thyroidea</i>

Also found a few slime molds & fungi. The woods however, are much

drier and poorer than last year.

Collected flowering plants, & took train to Miss Carrough.

Had shoes mended, got piece & drier, went to Barber shop, & return to Heights.

After supper went out after oaks, Populus, etc. for class use.

In the evening saw fine film of Niagara. A remarkable feature were the sketches of the Niagara map & topography by Dr. Atwood, now President of Clark University (Worcester?) &

Wed., Aug. 10, 1921.

Rained in early morning. I went along road to St. Peter S.S. to get more oaks, lvs, etc. for use of school exercises.

Prof. Keys was sick in Dr. Weeks took his place. I talked on contrasting characters of:

1- Oaks - *Q. alba*, *macrocarpa*, *umbellata*,
Q. rubra, *velutina*,

2- *Ulmus am.*, *U. fulva*, *Ostrya*,

3- Green Ash, Box Elder, Bittersweet,
Prickly Ash

4- *Rhus glabra* & *Cydonia*

5- *Populus grandidentata*, *P. tremula*

Suggested trees for study. You get material & trim tree. Cut smooth, close to trunk, all crossed branches, broken ones, etc.

Seasonal differences.

Variations in size.

In the afternoon we went (rode)
to Pike's Peak. I went with
Mr. & Mrs. Nichols of Sioux
City (former member of Legislature)
Capt. Bichel explained "Buffalo-
mound". Weeks called attention
to fact that birds should be
observed in morning. A very
small boy asked him why he
had his field-glass & he said
"to look at pretty girls", &
promptly the youngster replied,
"Let me look". I talked
of old-time upland forest, -
scattered large trees with almost
no underbrush. The two large
white oaks in "buffalo mound"

are probably 150-250 yrs. old.
(Diameter not measure of age.)
Storkey talked of fungi causing
rot in trees.

At the Pike's Peak lookout
Storkey discussed the geology
& read Savary's account. I
called attention to bare slopes
on Wisconsin side & Timber
bluffs on Iowa side. On east
every valley & gulley was marked
by trees.

The storm was very threatening
& some drove home. The tide
was about 110, but the
majority however walked
down the slope through
canyons. Spirit was
very fine. Most of us

Prof. McDonald & Mrs. also on
trip.

were taken back in Mr. Bell's
fine launch "Arbutus".

On east side we could see
clearly three zones of
vegetation on the bars.

It rained part of afternoon
but the trip was fine.

Back to Heights. & after
supper I went to meeting.

McClus read an address on
Bird language & Story on
Fungi. [Mr. Harlan was

with us on the trip & talked
of Marquette & Joliet coming
down the Wisconsin, &

of great Council at Prairie
du Chien which marks the
Mississippi the west boundary
of the colonies. ^{also spoke at}
evening.

Rained again in evening.

We planned to go to Muscoda
(Dr. Oberholser, Mr. & Mrs. Carl Bickel,
& Mrs. Willis Bickel).

The couple (the lady small, dark)
from Valley Jr. are

Thurs., Aug. 11, 1921

It was still threatening rain.
We crossed the Mississippi to
Prairie du Chien by ferry at
9:15. In the party were Mr. & Mrs.
Carl Bickel, ^{+ daughter} Mrs. Willis Bickel, Dr.
Oberholser & myself. Drizzled a little.

We drove to Muscoda, & while
the people were getting dinner at
the hotel I went to the Jack Pine
Dunes just west of town.

The dunes have Jack Pine (P.

Banksiana) well scattered over them,
but there are open places. For
the most part the dunes are
fairly well (rather thinly) covered
with sedge & grasses, just now
my arrow grass being the most
conspicuous. A few *Q. velutina*
are scattered about. I found
a number of interesting plants.

Here of the sand-flora proper:

Cyperus Scheuchzerianus

Carex "cephalophora" ?

Arrow-grass.

Hudsonia —

Prunus pumila

Fraxinella floridana

Zalium rugospermum?

Here which are scarce:

Panicum virgatum

" *Scribneri*

Phytolacca americana

Solidago nemoralis

" *missouriensis*.

Along the Wisconsin alluvial
timber *Lobelia cardinalis*
was common. On the banks, etc.,
Gerardia grandiflora was
not rare.

We returned & Dr. Oberholser
lectured in evening on the
work of the Biol. Survey (illus.)

Friday, Aug. 12, 1921

In forenoon presided, Weeks & Keyes talked.

In the afternoon Dr. Storley & I took botanists into woods. Saw slime-moulds ^{fungi}, etc., & examined plants.

In the evening Dr. Storley gave illus. lect. on life history of ferns.

I tried to show possibilities of the McGray region:

Pollination; seed-dispersal; special habitats, swamps, woods, etc.; variation in plants, - oaks, etc.; etc.

Sat., Aug. 13, 1921

The crowd went to Clayton by rail (brought *Sullivania ohionis* & *Asplenium angustifolium*). I was somewhat lame. Went to upland woods on the Greer Heights & under logs of *Populus grandidentata*. I collected slime-mould & fungi, and snails.

In the afternoon I presided while Keyes talked on local Indian Name Groups & Ansholser on bird migrations. A heavy rain storm came up.

In evening I presided & Bennett talked on the Greer & the Wild Life School (Illust.). The evening cool & clear.

Sun. Aug. 14, 1921

Capt. & Mrs. Michel & Dr. Oberholser
& I, started at 10 am. for a trip
to the southern part of the county.

We drove to Garnaville, and then
on to Millville. From McGregor
we rose to road leading to Piles
Peak, & then with ups and downs
we passed over the high plain,
cut up by valleys. From Garnaville
we traveled S. E. to Millville.

The uplands in Garnaville &
Jefferson townships are characteristic
of the uplands of this region;

There is a high plain, cut
by valleys. All of this upland
plateau was prairie. The
valleys and cañons are timbered
throughout.

The upland material does
not look like loess. It seems
to be more pebbly-like, and its
color is a dull brownish.

At Millville we purchased
supplies for a lunch, and
drove along the Little Puckey
river to Graham. It is really
only a large creek, but
its valley is distinct, with
rather pronounced bluffs &
limestone ledges. We tried
to get into Pinecreek Hollow,
but a farmer told us that
the road was not passable
and it appeared so. He said
that the Hollow had not
been cleared, and was still a
wilderness.

We drove on to Colerburg and expected to visit Twin Springs, but the road was impassable because of a washed out culvert, and we pushed on to Colerburg and thence to Fountain Springs, on the road to Greeley. Here is an old mill, & a stream of water shoots out at a considerable height. We crossed the bridge & went up to a spring in the valley some distance up. This spring bubbles up from gravel, and agates are frequent here.

I collected a few plants. Met George Banta^{wife}. This is near his farm. We then drove to Edgewood, and thence north to

Bixby Park. Visited the Ice Cave. Noticed following

Trees & shrubs:	
<i>Ulmus amarus</i>	<i>Carya</i> sp. ^{ovata}
<i>Ulmus fulva</i>	<i>W. Hickory</i>
<i>Acer saccharum</i>	<i>Acer negundo</i>
<i>Juglans cinerea</i>	<i>Pinus strobus</i>
<i>Betula v. papyrifera</i>	<i>Quercus velutina</i>
<i>Ulmus lenta</i>	<i>Lilia americana</i>
<i>Salix cordata</i>	<i>Taxus canadensis</i>
<i>Ulmus longifolia</i>	<i>Alnus incana</i>
<i>Juglans nigra</i>	

This is place well worth visiting. On the ledge I collected a few plants, including *Cryptogramma stelleri*. We then drove to Elkader, via Littleport and Communia. The uplands show some cutting up of a great plain.

Near Littleport, well down in valley, I saw a cut with what appeared to be loess, with gravel

H. E. James, Edgewood, Ia., wants
to know about the shrub from
Pike's Peak.

under it. Found *Prunus pennsylvanica*
along road, S. of Elkhader.
The upland view is true fine,
and this was all really
prairie on the uplands.

Beyond Elkhader we again came
up on uplands, with fine view.
The roads are being repaired, & are
bad. We were stuck for over half
an hour. ^{along road everywhere} *Linaria*
vulgaris was very common, in flower.

We reached McGregor at about
8⁰⁰ PM. I went up hill, changed,
and attended evening meeting
at the Congregational Church.
Prof. Shirling talked on shrubs, &
planting for decoration, etc.

He followed a film
by the Educational People, on
plants. Many errors in the

legends. Here are some.

- 1 - It said no plants where
no soil.
- 2 - Oaks grow on gravelly hills.
- 3 - Water plants growing,
& thicker stems than
marsh plants.
4. Dunes have plenty of
water.

Monday, Aug. 15, 1921
I went down ~~in~~ the morning, &
started for Pike's Peak, taking
a lunch. I collected mosses,
liverworts, fungi, etc., - a goodly
lot. Also a few vascular plants.
At 2⁰⁰ PM. I met the party
on top of Pike's Peak, where

each instructor talked, I discussed the open woods of long ago, with large trees & little underbrush, and also destructive work of fungi on trees, and their beneficial work on the leaf-mould. Also talked on prairie openings.

We returned down to Picture Rocks, & walked along RR. to the bridge.

The steamer excursion was given up, no boat coming.

In the evening I filled in by talking on Plant Habitats, etc., & Dean Kay talked on Antiquity of Man.

Tuesday, Aug. 16, 1921
Since the trip to the Loyalist Park (Wisconsin) was given up (it rained most of the day) we postponed the Wednesday program back to Tuesday.

Dr. Weeks talked on value of bird-study, and I talked on common names & conservation of wild flowers. Rained all the time, yet 75 were present.

In the afternoon Prof. McDonald talked on methods of forest handling & I gave an exercise on Composites (using material). 80 were present, & all remained.

In the evening Prof. A. E. Shilling of the Polytechnic Institute of Kansas City, Mo. talked on insects, & Dr. Bennett showed slides of pictures taken the other day. Cloudy in the evening, but no rain.

Wednesday, Aug. 17, 1921

A very heavy rain, with a magnificent lightning display, came up after midnight.

In the morning everything was wet & I spent a part of the ^{bird study} forenoon (after introducing Dr. Weeks) in mounting Alimo molds, etc. Dr. Keyes talked on the mounds of the

Ochology region.

After lunch we had a little botanical conference in the tent, and then went to the St. Peter SS. Prairie opening on way to Lookout. We noted the prairie plants, and identified 54 kinds besides border & stray forest plants.

We then went to the mound, near the Lookout, and saw excavation conducted by Prof. Keyes. A few Muro shells (fragments, or worn shells) were found in it. In the evening Dr. Oberholser talked on conservation of large mammals, and I on the causes of the prairies.

Thursday, Aug, 18, 1921

I had nothing A. M. & Prof.

Macdonald and Shirling took
the afternoon for field-trips.
Went out with W. N. C. Elwell,
in Canuck, to Jay Magill
bottoms. I collected some fungi,
but few species were found, and
these nearly all on logs of
Am. Elm. Saw no slime-molds,
nor land snails. Collected
many plants. Moths were
plentiful but of few species.
Saw six oaks. *Q. bicolor* is
frequent. One specimen measured
just 4 ft. in diam. (12.5 ft. in
circumference at breast height).
Large bur-oaks are also frequent,
and smaller *Q. elliptica*,

not leaves & acorns from
these *Q. elliptica* trees.

This is on a somewhat
elevated bench on which
about 100 mounds have
been found, some empty.

I found one large *Q.*,
bicolor in which rougher
bark (not quite so rough
as in *Q. macrocarpa*) was
scaling off, & finer, light-
colored bark remained, same
as my bur-oaks & white oaks
at Homestead & Iowa City.

Also collected plants along
R.R. Found large patch of
Gentiana ^{florida} ~~altissima~~.

Obtained a few shells from
clam-man near Jay Magill.

We returned at 6³⁰ PM. In the evening the Commercial Club held a meeting (with a little banquet) at which all the members of the faculty spoke, and also several of the citizens and visitors. ^{in fine spirit} After the meeting I worked until 1:30 AM.

A committee was appointed by the Club to consult with the faculty as to best ways & means for perpetuating & developing the Wild Life Conservation School.

Friday, Aug. 19, 1921.

Went out at 5²⁵ AM. to the Pictured Rock cañon. Found *Pogonia pendula* in flower. It was on a slope in woods above the upper spring (above the Bridal Falls, at base of a big Hard Maple, grew among leaves on ground.

Also collected a fine lot of *Anthrenus* on sandstone opposite Pictured Rocks, & lower, on same sandstone, a small *Limonium*. Returned at 8⁰⁰ AM.

At the morning meeting every member of faculty talked.

I talked on "Cruelty in Nature".

In the afternoon I had a conference showing *Q. bicolor* & *Q. ellipsoides*.

and answering questions.
A storm drove us in, I
went down after the storm to
the town.

In evening a Vienna party &
three talks. I answered questions
on shelterbelts, & bending of trees
by wind.

Sat Aug. 20, 1921
At Chas. H. Kramer's Drug Store
there are three heaps of dry
"roots". Hydrastis ^{2.75 a lb.} canadensis;
Ginseng & Cypripedium; all
are local. Mrs. Elwell has
a heap of Cypripedium "roots".

At 1 PM (Friday) we had
a conference with the Committee
of the Commercial Club.
Present, Messrs. Dambenber,

Lux, Capt Bickel, and two others.
Agreed that name should be changed
to The American School of
Conservation. (In the evening at
the general meeting this was
adopted (as part of Resolution Com.
report. This was a fine report
prepared by Miss Anna ^{M.} Washuk,
chairman of English Dept in the
La Crosse High School. With her
was the Teacher of Biology, Miss
Bertha Shumann, also Annie
G. Ford, of the same school.) but
reconsidered, & then left to
a Committee ^{of 3}. Names suggested:
(by Mrs. Himes) The School of Wild
Life & Conservation. (by Mrs. Bickel)
The ^{Am.} School of Conservation &
Wild Life. Finally Saturday

^{Am}
I suggested The School of
Out-of-Door, but Dr.
Oberholser thought it would
not meet their requirements.

Finally Capt. Bickel suggested,
The American School of ^{Conservation}
The School of Wild Life & Out-of-Door.

The spirit throughout the
school was fine, and all
are enthusiastic boosters.

The Comm. Club will
raise a larger fund &
the work will be more
varied. Dr. Oberholser
thought it would be possible
to get the Fisheries Bureau
interested.

Packed some late at night,

Sate, Aug. 20, 1921

I arose at 5³⁰ AM & finished
packing. Went down with Bickel
& finished packing the ~~papers~~.
Mrs. & Mrs. ^{W.H.F.} Elwell want
me to come for an Eastern Star
meeting.

We left at 2:14 PM for
Dubuque & Cedar Rapids. I
checked two large trunks (+
my suitcase) and sent two
hand trunks by mail and a
large trunk full of skins by
express.

The bluffs are close to the RR
practically across all of
Clayton Co. & much of Dubuque.
As Dubuque & a few other
points (including valleys of tributaries)

the bluffs recede.
Opposite Sabula they are
rather low & rounded, &
with not so much timber, -
probably cleared.

A swamp just S. of
the RR, at Sabula has
quite a lot of Helianthus,
now still in flower.

We left Sabula at
6:45 PM, for Marion & Cedar
Rapids.

For the last three days I
have had a bad case of
bronchitis, from wetting

Sep. 3, 1921 Sat

To Dyersville, Mr. Gregor, etc.
Left Iowa City at 2:55 PM, & Cedar
Rapids for Delaware at 5 PM.
The day has been hot and
quiet, mostly cloudy. A fine
steady rain continued until
nearly 10 AM.

Everything looks fall-like. Corn is
drying rapidly, Melilotus alba
is all dead, and flowers are
mostly Helianthus & Solidago, with
few Cirsium

Linnaea

Liatris pinnatifida fl.

Helianthus grosseserratus fl.

Solidago rigida fl.

" " *perovskiana* fl. (abundant)

" " *laevigata* fl. (abundant)

Sagittaria arifolia fr.

Andropogon furcata fr.

Veronica virginica fr.
Aster multiflorus var.
Solidago canadensis fl.
Silphium laciniatum fr. (low)
Echinops cyathiferus fl. (low)
Cirsium discolor fl.
Prenanthes alba woods
Eupatorium verticillatum woods
Artemisia latifolia fr.
Lupinus canadensis fr.

June 20.

Solidago canadensis fl.
Solidago rigida fl.
Meum angustatum fl.
Meum nemorosum
Sagittaria arifolia fr.
Helianthus grosseserratus fr.
Helianthus strumosus? fl.
Cirsium discolor fl.
Andropogon furcatus fr.
Andropogon scoparius fr.
Morinda punctata fr. along river
Rhus glabra fr.
Gentiana flavida border
Shastina Michx. fr.
Eriogonum canadense fr.
Aster multiflorus var. fl.
Anemone
Melilotus alba fl. (little)
Artemisia latifolia fr.

Yellows decidedly dominate!

Aster laevis fl.
Liatris punctata fl.
Helianthus scaberrimus fl.
Potentilla arguta fr.
Anemone canescens fr.
Elymus canadensis fr.
Lupinus canadensis fr.
A white *Liatris scariosa* fl.
Silphium laciniatum fr.
" *intermedium* fr.
Echinops cyathiferus fr. (low)
Hordium jubatum fr.
Liatris pycnostachya fr. (rather low)
Silphium laciniatum fr.
Salix humilis fl.
Asclepias syriaca fl.

Monticello.

Kapenia eupatorioides
Tharsochrysis heterolepis

Reached Delaware at 7.45 PM. &
changed to Ill. Cent. Ry. Left at
8.12 PM. for Dyersville. It is now
clear, and promises well. Rained

a little here at Delaware in the morning.

Reached Dycerville at about 8⁰⁰ & put up at Dycerville House.

John B. Witt } this is a sign
Anna M. Witt } in Dycerville!
Lawyers }

Sep. 4, 1921, Sun.

Awoke at 5⁴⁵ Am. & prepared for trip to Pine Hollow.

Had

drive me to a point 2 mi. W. & 1/2 mi. N. of Leesburg. I then went N. to Pine Hollow.

Just before entering the small valley leading to it I found a place much cleared, with stumps & a few logs. Collected fungi

(I found that all my so-called Clayton co. localities for plants & shells in this region are in Dubuque co. - Delaware also?)

and a few slime molds.

Then followed Pine Hollow to outlet. The best part is all in Dubuque co. Indeed, the best part ends on S. line of Ill. 6, a mile from N. line of county. The walking is rough. There are no paths or trails. It rained last night, & the morning was foggy & very misty. Sprinkled a little in forenoon. Then cleared, - & hot!

I reached Graham at about 4 P.M. & terrific rain storm came up. Left Graham at 5⁰⁰ P.M. & walked about a mile over very slippery road. Then a young farmer, Wesley Welsh

came along & took me (by
team & buggy) to Millville, -
for 3⁰⁰.

Put up at (Donnell's?) for
the night. Bedbugs, - I
slept on the floor to escape them.

Sep. 5, 1921 Mon.

Left Millville at 5.⁴⁵ AM. The
road to Millville Siding (1 mi.) was
very muddy. I then walked down
the track to Turkey River.

Quite a heavy fog after the
rain. Every morning on this
trip, - to Mc Gregor, - was foggy.

I took the train at 7.¹⁸ AM.
for Clayton. Left my stuff
at the station, got my package
of papers, and walked to the first

sandpit S. Went up the cañon
a short distance. Found
Asplenium argutifolium, *Adiantum*
Goldianum, *Lullimantia oblonga*,
etc. Saw some very fine *Caryopteris*,
Collected mosses on the A. Peter
S. S. ledge, & also picked up
a few mollusks in drift
along the little creek. Had
a boy with me, - 13, - whose mother
left the father. He told me his
experience. Both him to work.

I left for Mc Gregor at 1.⁰⁰ PM.
At Mc Gregor I packed plants
from Pine Hollow & Clayton, & worked
a little along road leading up
to Mc Gregor Heights. Found Miss C's
little Composite weed, - & a few
other plants.

Sep. 6, 1921, Tues.

In forenoon went up river in the "Arbutus", to clambers above Marquette. Found one *Margaritana monodonta*. Mr. Elwell says he will get more for me.

We had started out with Mr. Elwell's Caruch, but had a break-down, & Mr. Fred Bell took us in the "Arbutus".

We also got roots of *Lotelia cardinalis* on island.

Got roots of *Asplen. autumnale* & *Lotelia cardinalis* to John Springer & Ella. Went up on Mt. Grey Heights, & collected fungi & slime molds in woods. (also a few Malheur) and prairie plants in St. Peter's opening.

In the evening I attended the E. Star meeting, & talked on the obligation. Told Pinnacle story.

Got to bed at 1⁰⁰ AM. (I stopped at the scenic Hotel.)

Sep. 7, 1921 - Wed.

Miss Klein (our Miller's friend) drove R.R. Adams & me to Pike's Peak (Miller was along).

We worked down the St. Peter S. slope (below top limestone) & collected mostly mosses, liverworts & lichens. Then we worked in the Pictured Rocks cañon, getting mostly mosses & liverworts, ^{some fungi} From Miss Cavanaugh *Atrichum* on limestone block, just S. ^{N. end of} of railway between R.R. & road, S. of RR station at McGregor.

Returned after 2⁰⁰ P.M. packed,
and went up on open wood slope
on S. side of McGregor Heights,
just N. of Lucas & Richards.
Found Miss C.'s Rhamnus?; Ceanothus
ovatus; Crataegus (sp. in fr.), etc.
Also an apple "run wild".

I took seeds of lvs. from two
trees of the Rhamnus.

Spent evening in packing.

Sep. 8, 1921, Thurs.
Shipped basket (to Miss C.) and
a small box with Ceanothus vetch
for sections.

Left McGregor for Decorah
at 8⁰⁰ A.M. Reached Decorah
at 10⁵⁵. Took lunch at
"Shorty's" restaurant.

At 11³⁷ A.M. Wm. Koecker's
Ford driver took me to block
(or ledge) of St. Peter I. P., near
mile N. E. of Hesper, & across
a 40 N. south of state line.
A shower (with few hail) came
up. I collected Polygonum
donnellii (fl.), P. tenue (fr.), Brunna
parvula (lf.); Potentilla tridentata
(fr.), Abroma (fr.), Betula (fr.),
Polygala, Lichia, etc. Also
many mosses, few fungi & some
lichen. Saw no Woodsonia.
Collected Selaginella rupestris.
Returned to Decorah just in
time to take train for Emmet &
Charles City. Left Decorah at
3¹⁵ P.M. Reached Charles City
at 5⁵² P.M. & changed to Ill. Cent.

station, for train due to
leave at 6⁴⁵ PM.

Left Charles City at 6⁴⁵ &
reached Stacyville at 8¹³.
(The factories at Charles City
seem to be dead.)

Met George at station & then
Mamma, Anna, Jo, Ann & Vesta.

Sep. 9, 1921, Fri.

Packed all forenoon. Sent
press of plants to Mrs. Cavanaugh.

Packed up & left with Ma at
12¹⁵, George taking us to Lyle.

Took C. & W. Train at Lyle
for Mason Co. (at 2⁰⁰ PM, the
at 1⁴³).

Day bright & quiet.

Reached Mason City at 2:50 PM.

The prairie plants along the RR,
are mostly rather old-looking.

Helianthus, Solidago and Aster seem
to be the conspicuous flowering plants.

After arranging for mail, express,
etc., we took the 4¹⁵ car for Clear
Lake.

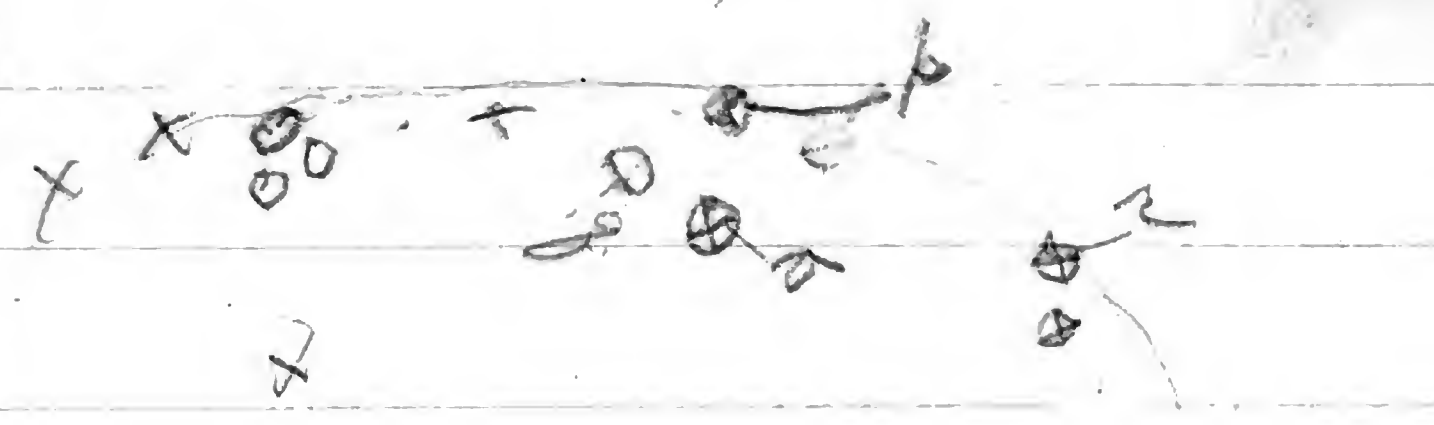
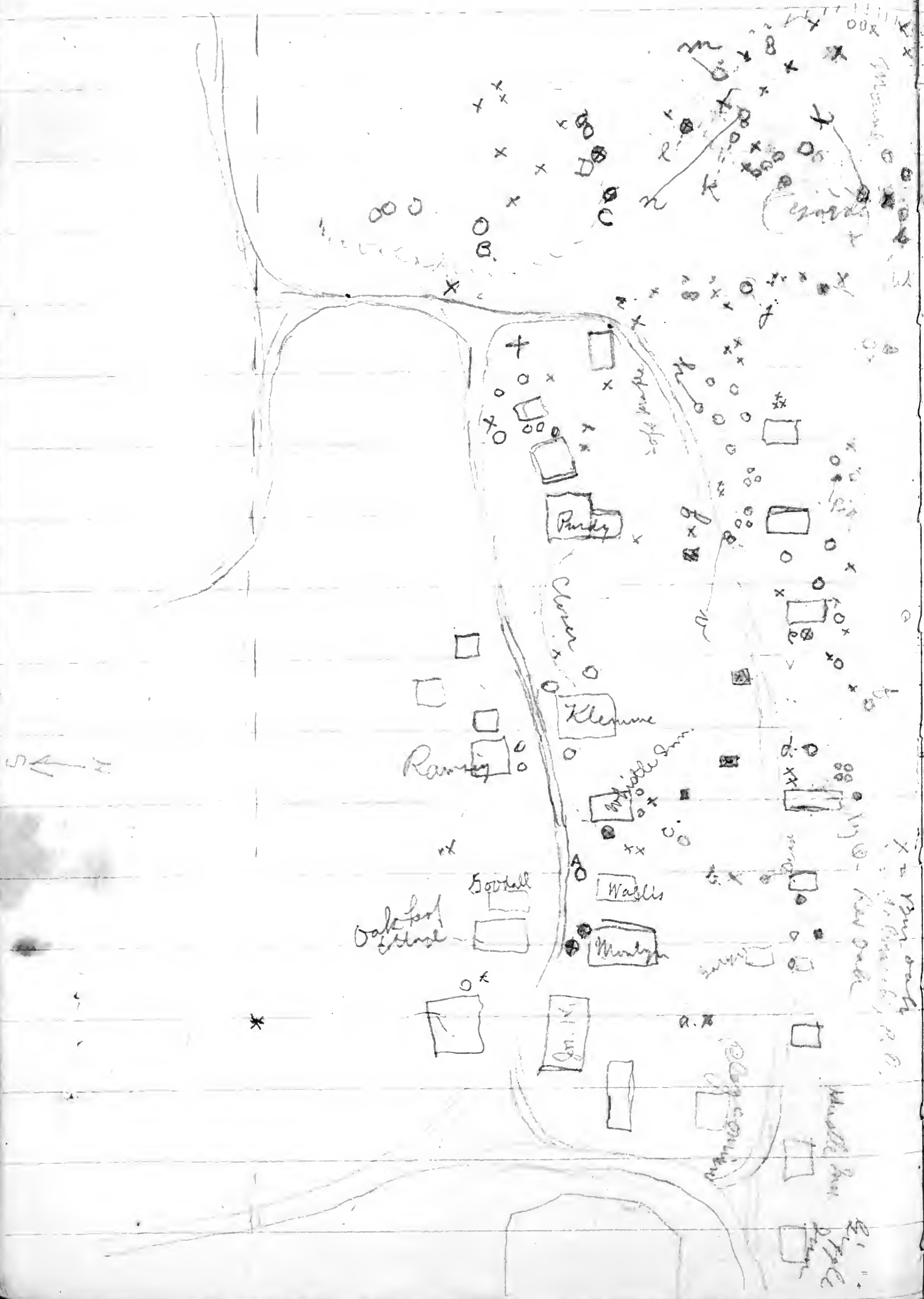
Sep. 10, 1921, Sat.

Rained early in the morning.

I looked about for oaks. Collected
Silvicultural Red Oak & Burr Oak acorns.
(Numbered by letters, - proven.)

Oak (a) - A bur oak 23' - diam. - fairly
good condition.

Oak b - Burr oak - 18' - diam. Fairly
good.



Various buildings

R.R.

Mount (enlarged)

Waller

N
S

Oak c - Schneck's Red Oak - 15' - Fair.
Fol acorns only,

Oak d - Schneck's Red Oak - 23'

Rather bushy - good - odd, bulging up.

Oak e - Red Oak (?) - 22'

Good condition. Both lvs. & acorns.

Oak f - Schneck's Red Oak 21' - a low,
bushy tree, with low hanging branches.
Acorns all hard - picked.

Oak g - Burr Oak - 29' - with big gall on
the lower part of bark is smooth (coarser
flakes off) coarser than upward.

Oak h - Schneck's Red Oak - 20' -
(see spec. at college) One side became cracked,
but good.

Oak i - Burr Oak - 17' - quite good.

(see spec. at college). Kink up, almost closed.

Oak j - Schneck's Red Oak - 28'

Rather sparsely, fairly good. Acorns
only.

Bark rougher than usually.

k - Schneck's Red Oak - 22' - Fairly
good - all of them are inclined to
branch low & bark out. Bark
moderately rough.

l - Red Oak - One side & sparsely. Bark
moderately rough only - 22 1/2'

m - Schneck's Red Oak, 14' - Low, sparsely.

n - Schneck's Red Oak - Little tree. Largest
(west) part = 25' - Low, branching.

o - Red Oak? - Rather tall, good. 20'

Modestly rough bark. Most of

these are gray with lichens - Both sp.

p - Red Oak? 12' - broken at top.

q - Schneck's Red Oak - 12'

Acorns only.

r - Red Oak? - 11'

Acorns only.

Oak s - Red Oak? - 14'

Leaning -

Oak t - Red Oak. 20'

Rather low, bushy - good tree.

Oak w. Red Oak? 15'

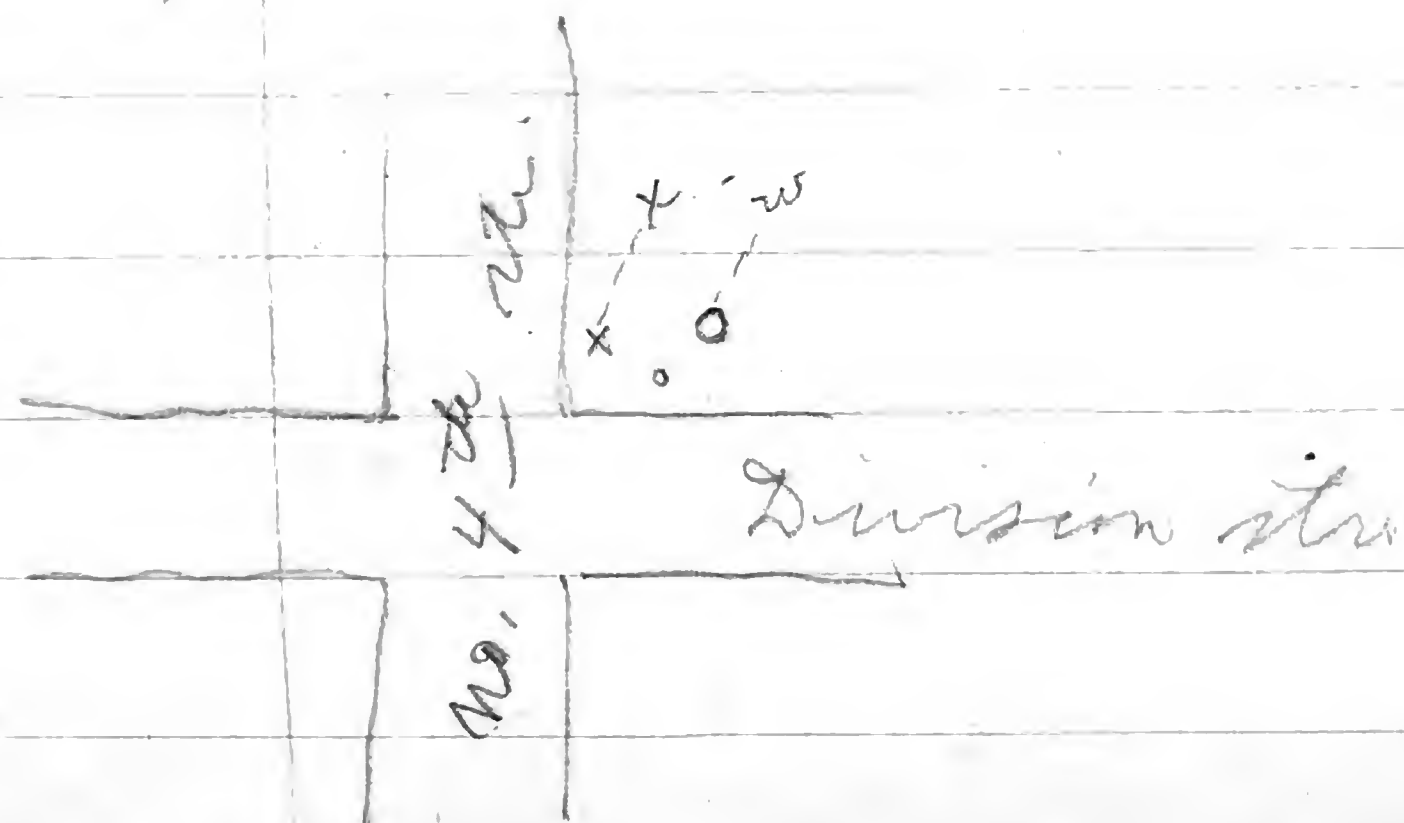
Rather broken - On mound.

Oak v - Schneck's Red Oak 13 1/2'

Double tree ^(w.) - one side dead.

Acorns only.

Went to small park at
intersection of No. 4th & Division
streets, Clear Lake.



(Discarded B, g. f. o. p. s.)

In SW corner of little park

I found:

Oak w. Schneck's Red Oak - fine
acorns - Diam = 18° low bushy

Oak x - Red Oak - took acorns
only.

In the afternoon, at 1:50, I
went to Mason City for my basket
& press.

The day has been partly cloudy,
and it drizzled a little a couple
of times. In the afternoon it was
clearer.

Yesterday (before rain) when we were
going from Mason Cy. to Clear Lake,
just E. of the midway station (Emery)
S. of a R.R., a willow hedge or
thicket on S. side of road
made row next. Drove to base.

Returned to Clear Lake
after 3³⁰ pm (at Clear Lake)

Oak A - Red Oak - (Schneck's?) - 21'

Took acorns, only.

Oak B - ^{Schneck's} Large, rather low, smooth & branching.

30' diam Gray with lichen, Not very rough.

Oak C - ^{Schneck's Red Oak} Large, low, branching. 28' - branching.

Not many lichen.

Oak D - Red Oak - 22 1/2'

Few lichen - low, branching.

Saw *Prunus virginiana* N. of

RR. 5 1/2' in diam & 35 ft. high.

A Red Oak stump N. of RR., in good wood, showed 98 rings &

measured 23 1/2" clear wood, & 25 inch bark, 30 in from ground.

There are logs everywhere, but logs are in here, & place is too clear.

Collected fungi & some lichens.
Returned to supper & spent evening in arranging materials.

Sep. 11 - Sunday 1921

A cold night, but no frost.

Cloudy, with just a little breeze.

Left at 7:10 AM. for Mason City.

Went out to Big (Buffalo) Slough.

First worker from one of our lines.

On Kentucky Ave., S. of 16th st.

(S.W. of Ave.) I observed Hills oaks (*Q. ellipsoides*) as follows:

Oak I is a small *Q. ellipsoides* 12' diam, this is N. one. S. is about same.

Oak II - 13' - Lower, more branching.

Bark reticulate in both, but not rough.

Low & fruit.

17 m 21
Keweenaw Ave.



W. 100 ft. corner
X = Pin oak
O = Q. ellipsoidalis

Sixteenth St. N.E.

Oak I

all of them are bushy & with bark as in I & II.

Oak III - Q. ellip. 11' - A good many branches in this (or this) dying. Sap flowing out. Bark same. Partly striped, some.

Oak IV - Q. ellip. - 11' - Like III. Lvs. & fr.

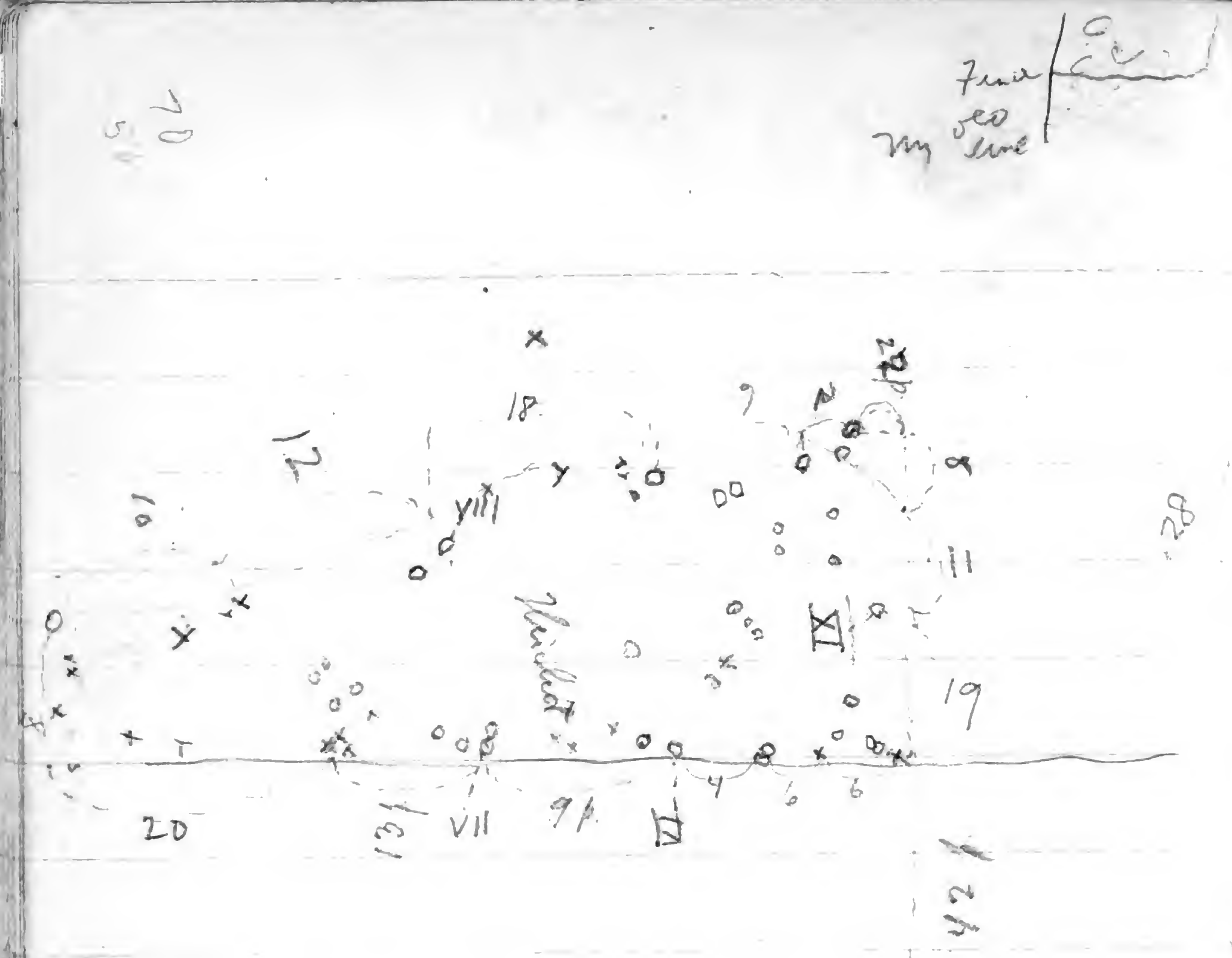
Oak V - Q. ellip. 12' - Very like III & IV. Lvs. & fr.

Oak VI - Q. ellip. 7 1/2' - Rather scrawny.

Oak VII - Q. ellip. 9' - (Other two about same or a little smaller (8'). Rather scrubby trees, but much like all others.

Oak VIII - Q. ellip. 13' - a fine tree. Bark same. The one near is very similar. Acorns & all.

Oak IX - Large, bushy, with low branches. Few acorns - 12 1/2' Rather rougher bark than usually. Lvs. & fr.



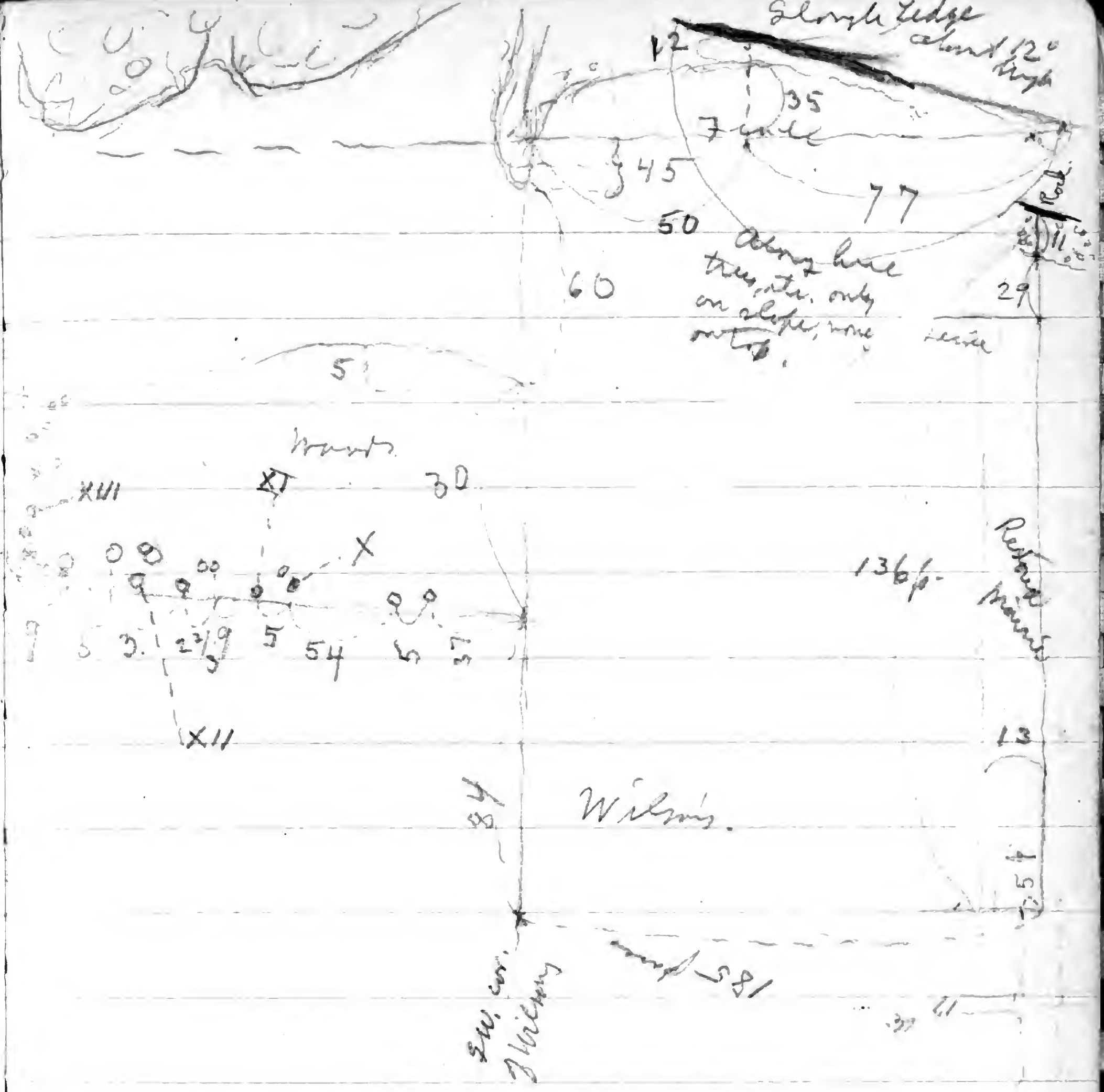
17th str N. E. 42 paces

all these are open fields & are

Oak X - Q. ellip. 10 1/2' - Two trees - both with rotten scars
Trunk favorable well up.

Oak XI - Q. ellip. 11' - Quite smooth-bark, Bushy &
Low branching. Trunk soon deliquescent.

Oak XII - Q. ellip. 10' - Quite smooth-bark above.
Lvs. & fr. Trunk soon forks.



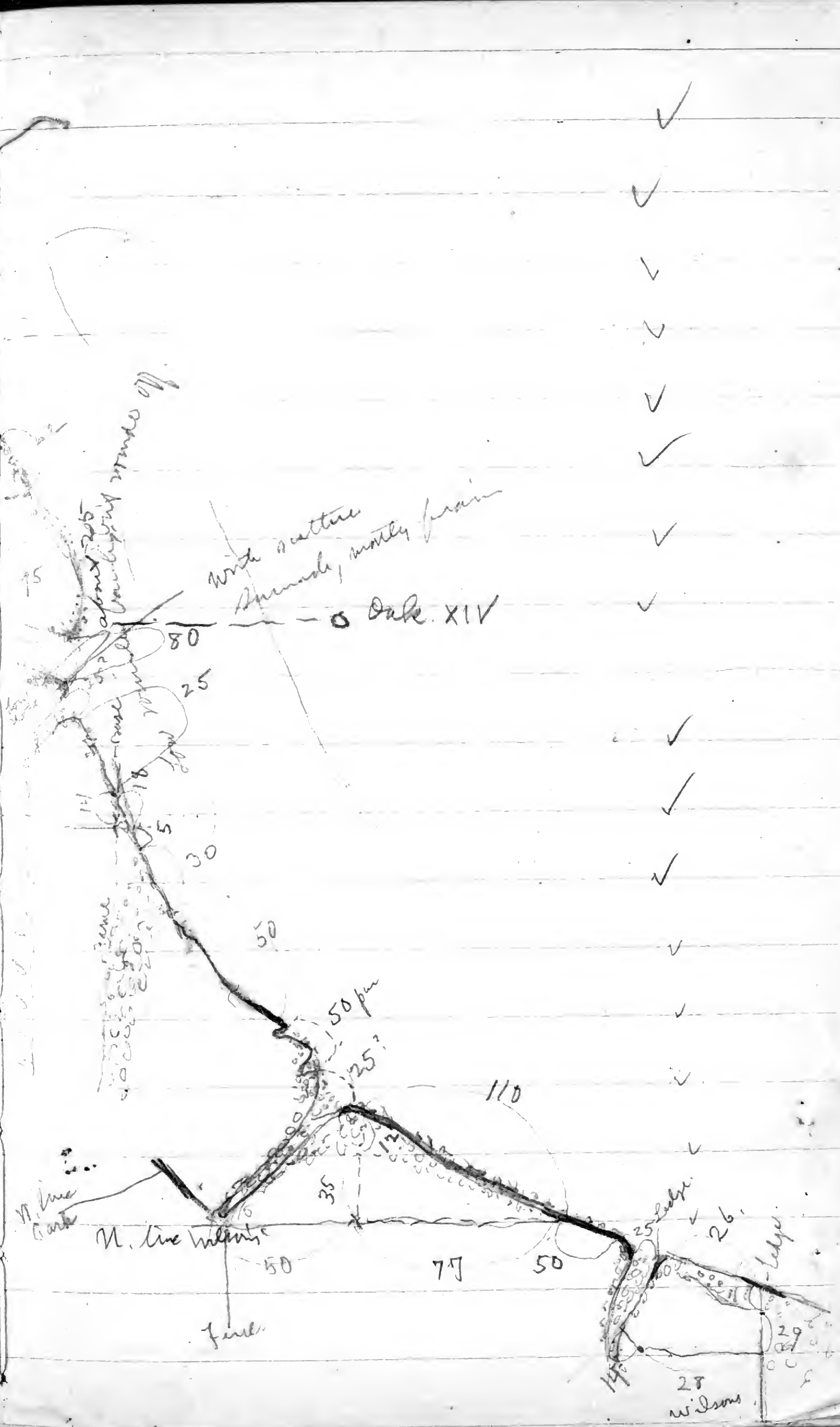
Oak XIII - Q. ellip. - 8 in. Quite
smooth-bark above. Lvs. & fr.
Many dead branches below & on inner side.
This one shows trunk well up through crown.
These oaks are all rather low, bushy, soon branching,
with many dead branches persisting. Bark
dark, usually not very rough, - above smooth as
in Red oak. They seem to be common in

5 1/2

The shrubs on the Highlands Plateau
 The low oak forms borders, etc.
 It is in the more exposed places.
 The Wilson cottonwood frame is
 a mass of flowers, Aster multiflorus,
 Aster agerifolius & Solidago rigida
 being the most common. Collected
 plants from this & the adjacent
 native prairie.

The upper end, Glass', etc, has
 no banks or bluffs more than 8 or 10
 ft high & none abrupt except
 at two ^{small} quarries. The timber
 above Glass' (to large grove) is only
 in the slope of the bank.

At upper end make strip (at least
 across first piece l. of grove, about 50
 yds, then narrow to 100 ft. to place
 next above Wilson's.



Take in all the Keeler Timber
at N. end.

On East side run only to spec. line
& then widen⁽²⁾ to 100 ft.

Oak XIV - Q. ellip. is on a low
high place (blue low bluff) on E.
side. One smaller spec. is N. of it.
a small low oak just S.E.

It is a low, bushy tree, with
rather smooth bark, 10' diam.
Dense crown, with a saw many stiff
hard small dead branches.

Leaves & fr.

I collected plants in the prairie
opening on the N.E. side, & a few
swamp plants in Big Slough.

I then went to my prairie E.
of RR. & found it partly pastured
& partly cut over.

Collected only a few plants, &
a few swamp plants.

Rode a wagon in auto & then took
car for Warm Springs. Caught the
6:00 P.M. car for Clear Lake.

The day (afternoon especially)
was clear, and with only a little
wind.

Near Joe's garden, in rather
low place I measured clumps
of *Artemisia tridentata*,
Tallest ones = $7\frac{1}{2}$ ft.

Spent evening in visiting
with the folks at Joe's.
Took care of some materials.

Sep. 12 - 1921 - Mon.

Packed some material (my basket & return materials) & left for Mason Co. at 10²⁰ am. got money, ^{shipping} ~~express~~ basket, got paper, barbits, etc. and at 12³⁰ went to Highlands.

Oak XV - 9 1/2 in, many small dead (hard) branches. around lvs.

A very poor year for parasite fungi.

Follow Slough NW & then cross to E. side. Platter prairie, etc.

The Big Slough is very dry, & even S. of road where there is usually a big pond, is now mostly mud flat.

The flat which I made

today is on next page (upside down).

I would suggest, for the East side, at N. end, about 100 ft., - or to 1/4 1/4 sec. line, & then beginning of route the N. line of Jane Dyon's tract, or same 1/4 line to where it cuts Slough, thence SE. at least 50 yds. from top of bluff, to the Barney tract. Then 100 ft. to road.

Returned at 4³⁰ pm & took 5:30 bus for Clear Lake.

Spent evening in packing. Packed box for Miss Cavange, & a basket for "the Herbarium".

Retired at 1 am.

(The plot & notes on next 4 pages were made before this page was reached.)

N
↑
S.

Lysia L. Lyons

C. Reader

Jane A
Byer

Alice
R.
Gardner

Woods

Fence

Top of hill

The R. crosses
thoroughly

at this point 2 fences
26 feet apart - my
earlier measurements are 9 ft.
but R. is probably right

Mary E.
Wilson

x = Cat holes

The W. line of Wilson's ends
at north at head of gulley, but it
is 8 paces W. of true line at N. end -
the fence curving west.

Fred E. Keeler

There is a very small
hill on the N. side of the
gulley. It is covered with
grass and is not very high.

These slopes are not
abrupt, but no striking
or distinct ledges.

McGowan
Stephenson

Fred
Barney

Almond
cylinder

The SW. side shows only ~~uninterrupted~~
bits of prairie 4-8 fms wide &
these over ledges mostly.

On W. side the prairie ~~opening~~
are ^{reaches} 40-50 fms wide

On W. side practically all
spring are bordered (or walled) with
low hard, & occasional clumps
are in opening.

Much bar cat on W. side.

Also hard, yellow, better meat
hazelnut,

Lower end N. of road is crowded
with Cat tails between two lines
& road.

S. of road the pond is almost dry.

The woods in E. part of Highlands
are dense, largely bar oak, but
some *Q. ellipsoides*. The latter
low, bushy, with hard & stiff
dead branches numerous.

Toward Big Slough, in tract
E. of Highlands, there are a
few white oaks, a good many
basswoods, etc. This part of forest
is more varied. See tree &
plant lists of earlier days.

In the openings, especially on
E. side, there were a good many
branches of leaves of *Ranunculus*
fascicularis & *Anemone patens* var., and
a few *Viola pedatifida*. These
all suggest spring.

This has been a dry season here,
Joe says.

Sep. 13, 1921 - Tues. ^{am}
Left Clear Lake at 6:54 for
Milford. It is cloudy, & threatens
rain.

Began to take notes w. of
Norton:

Kosuth co.:

- + Aster multiflorus fl. most common.
+ Solidago serotina var. ang. fl.
+ nemoralis fl.
+ rigida fl.
+ canadensis fl. - rather old.
+ Helianthus grosseserratus fl.
(Much is cut for hay.)
+ Amorpha canescens fr.
+ Aster laevis fl.
+ (azureus) fl.
+ Andropogon scoparius fr.
+ ~~Sorghum caudatum~~ fr.
+ Sorghum bicolor fr.
+ Zea mays fr.
+ Spartina Michauxii fr.
Athyrium = + . and:
Andropogon furcatus fr.
(Fine-like Wasmann grass.) fr.
Aster sp. canadensis fr.
Liatris pycnostachya fr.
Zizia latifolia fr.

Melilotus alba - fl. + fr.
Sorghastrum nutans fr.
Cirsium discolor fr.
Aster novae angliae fl.
Artemisia ludoviciana fr.
Vitis vulpina lf.
Lysichiton ciliatus fr.
Eragrostis pectinacea fr.
Rudbeckia hirta fl.
Silphium laetifolium fl. (one)
Agrostis hyemalis fr.
Helianthus maximiliani fl.
Liatris scariosa fr.
Lepachys pinnata fr.
Petalostemum purpureum fr.
Aster sericeus fl.
Helianthus scaberrimus fr.
 Whittemore
Oxalis xanthiifolia fr. (weed)
Helianthus annuus fl. + fr. ("")
Ambrosia artemisiifolia fr. (bignoniaceae) ("")
Panicum virgatum fr.
 (Lepachys pinnata fl.)

2506

Pale Alto ce

- * 0 + *Asclepias syriaca* fl.
- * 0 + *Solidago rigida* fl. + fr.
- * 0 + " *memoralis* fl.
- * 0 + " *canadensis* fl.
- * 0 + " *speciosa* var. *laevigata* fl.
- * 0 + *Helianthus grosseserratus* fl.
- * 0 + " *scaberrimus* fl.
- + *Asclepias pulcherrima* fl. lf
- * 0 + *Silphium laciniatum* fr.
- 0 + *Oryzopsis yuensis* fr.
- * 0 + *Aster multiflorus* fl.
- * 0 + " *laevis* fl.
- * 0 + " *argenteus* fl.
- * 0 + " *novae-angliae* fl.
- * 0 + *Liatris pycnostachya* fr.
- * 0 + " *scariosa* fr.
- 0 + *Anaphalis canescens* fr.
- * 0 + *Andropogon furcatus* fr.
- * 0 + " *scaberrimus* fr.
- * 0 + *Elymus canadensis* fr.
- * + *Spartina Michx.* fr.
- * 0 + *Eriogonum discolor* fr.
- * 0 *Artemisia ludoviciana* fr.
- Cylinder = + and:
- Oenothera biennis* fl.
- * 0 *Brunneria angustifolia* fr.
- 0 *Vernonia virg.* fr.
- 0 *Lepachys latifolia* fr.
- * 0 *Kuhnia eupatorioides* fl.
- 0 *Cirsium discolor* fl.
- Zizia aurea* fl.
- Helianthus scaberrimus* fl.

Emmetsburg To Ruthven = 0 and:

- Vitis vulpina* lf.
- Vernonia fascicularis* fr. (low)
- Sorghastrum nutans* fr.
- Melilotus alba* fl.
- Helianthus maximiliani* fl.
- Lepachys pinnata* fr.
- Solidago canadensis* old fl.
- Agrostis hyemalis* fr.
- Panicum virgatum* fr.
- Oxybaphus* sp. - lf
- Mnemonia mollis* - fr
- Desmodium canadense* fr.
- Petalostemum purpureum* fr.
- Scirpus atrovirens* - (mossy)
- Zizania (small)* fl.
- Artemisia (dracunculoides)* fr.

Clay co.

Ruthven to Menier - x and:

- Phragmites communis*
- Agropyrum (canadensis)*
- (mostly cut for hay)
- Reached Miford at noon (belated)
- It was raining, & about 1 o'clock
- it poured for a while.
- I went up the track & found
- my old *Liatris* squarrosa place

all cultivated, with no trace of
the Liatris,

Collected other perennials (& two
asters + *Hydrotum* from low places)
plants along RR. + E.

Also several for sectioning
(see "Wilford" box.)

Left for Spirit Lake at 4:22, +
Spirit Lake for Ocheysdan at 6:25 PM.
Put up at the little hotel.

Sep. 14, 1921, Wed.

Arose at 5:00 AM. Very wet +
a heavy mist (drizzle). Got
box of section material out.

Started ^{at 6:37 AM} for the Mound. Roads
are very slippery. A half
mile east, at the turn S., a
farmer took me in his Ford,
clear to Mound, - a mile.

I found the Mound stripped
bare by cattle. Picked up
a few stunted remnants,
Anemone patens, var. ^{fl.}, *Aster spicatus*,
Solidago visida, ^{fl.} *S. nemoralis*, *Aster*
multiflorus, ^{fl.} *A. scirpensis* (the two last
most abundant), *Portulaca hispidula*,
Andropogon furcatus, ^{fl.} *Castilleja nictitans*
(cf.), *Petalostemon purpureus*, *Salvia haliensis* (Saw *Erigeron*
complanatus + *Petaria virens*).

Saw a Burrowing owl - Its hole was near base
on W. side of Mound.
Aster sericeus showed the very hairy (not silky)
root-leaves.

Hurried back to train, due at
8:37 AM, for Granite.

Drizzly, foggy nasty weather!

Left at 8:47. - Between Delaplane & Allandree ^{nearly all}

Between Allandree & Sibbey, Orceuta co.

Liatris pycnostachya fr.
Elymus canadensis fr.
Aster multiflorus fl.
Solidago nemoralis fl.
Panicum virgatum fr.
Aster laevis fl.
Andropogon furcatus fr.
Actinaria ludoviciana fr.
Prenanthes aspera fl. (rather large)
Helianthus grosseserratus fl.
Solidago rigida fl. - old, mostly.
Arnica montana fr.
Liatris scariosa fl. & fr.
Melilotus alba - fr. some fl.
Helianthus maximiliani fl.
Solidago canadensis fl.
Aster novae-angliae fl.
Helopsis scabra fl. (rare)
Cirsium discolor - fr. fl.
Much cut over.
Solidago speciosa var. *ang.* fl.

Brauneria angustifolia fr.
Sibbey - (to corline)

Iva xanthifolia fr.
Eryngium yuccifolium fr.
Veronica virginica fr.
Psalmion asperifolium fl. (large)
Apocynum cannabinum fl.
Lepachys pinnata fr.
Sparganium angustifolium fr. (low)
Astragalus canadensis fr.
Andropogon scoparius fr.
Proserpinaca angustifolia fl. (fr?)
Rosa pratincola fr.
Cirsium discolor - fr.
Petalostemon purpureus fr.
Lepachys capitata fr.

Aster novae-angliae is not common.
All the way from Mason City it
occurs just here & there in
small clumps, - usually
on rather lower grounds.
Aster multiflorus & *A. laevis* seem
to be the dominant forms.

Lyon co.

Little Rock to State line.

- xot *Eragrostis xanthiifolia* fr.
- xot *Helianthus scaberrimus* fr.
- xot " *glossatus* fl.
- xot " *Maximiliani* fl.
- xot *Solidago rigida* fl. & fr. very common.
- ot " *nemoralis*
- xot " *canadensis* ab fl.
- ot " *speciosa* v. *angustata* fl.
- xot *Andropogon tri-fidus* fr. fr.
- xot " *artemisifolia* fr. - very com. - waste
- ot *Achillea canadensis* (rare)
- xot *Aster multiflorus* fl.
- xot " *laevis* fl.
- xot *Petalostemon purpureus* fr.
- xot *Artemisia ludoviciana* fr.
- xot *Clintonia canadensis* fr.
- xot " *pycnostachya* fr.
- xot *Helopsis scabra* fl. (few)
- xot *Elymus canadensis* fr.
- xot *Spartina Michauxiana* fr. (1 - not com)
- xot *Andropogon scoparius* fr.
- xot " *fuscatissimus* fr.
- xot *Astragalus canadensis* fr.
- xot *Amorpha canescens* fr.
- xot *Brunnera angustifolia* fr.
- xot *Aster novae-angliae* fl. (low)
- ot *Zappa latifolia* fr. (low)

Low-Kamm

After leaving Ellsworth, - from State line to Rock Rapids (Lyon co.) = + and:

- ot *Silphium laciniatum* fr.
- ot *Lepachys pinnata* fr.
- ot *Cirsium discolor* fl. (low)
- ot *Chrysopsis complanata* fr. (low)
- ot *Silphium perfoliatum* fr. (low)
- ot *Symphoricarpos occidentalis* fr.
- ot *Lepachys capitata* fr.
- xot *Rubus eupatorioides* var. fr.

Rock Rapids to Luster = 0 and:

- *Euphorbia Preslii*
- *Panicum virgatum* fr.
- xot *Rosa pratincola* fr. (low)
- *Sidastrum montanum* fr. (low)
- *Prenanthes alba* fl. fr.
- *Petalostemon candidum* fr.
- *Eriogonum canadense* fr.
- *Senecioium biennium* fr.
- *Monarda mollis* fl.

Luster to Larchwood = x and:

- *Helianthus annuus* fl. fr.
 - *Cirsium canescens* fl.
 - *Aster sericeus* fl.
 - *Asclepias syriaca* fr.
- Larchwood to Granite = + and:
- *Monarda alba* fl.
 - *Silphium laciniatum* fl.

Reached Granite at 11¹⁵ AM.

Left a part of my baggage at the station, and walked to the Sioux

Quartzite exposure in NW cor. of the state.
Stopped on the gravelly ridge $\frac{1}{2}$ mi.
W. of Granite (S. of creek) and collected
Artemisia frigida, etc. Saved wood
for pickling & sections. Collected a lot
of plants.

Went on to E. & W. road a half of mile
(fractional section) S. of state line, and
went on the road to Big Spring.
A bridge here crosses, & a road leads
along river to Sixty Quartzite.

I worked on the Quartzite area from
1:45 PM to 4:15 PM. Collected a lot of
plants, & saved some for sections.

Opuntia fragilis and *Sclaginella* are
very common. *Woodia scopulina* is
showing a second crop of fruiting
fronds. Not so abundant as once
upon a time.

I found a few trees & shrubs right on
the ledges:

Fraxinus
Lilium americanum
Acer negundo
Prunus virginiana
Ribes gracile
Quercus macrocarpa

In the shade of these were a few
tender plants. Also collected a few
water plants ^{or near} in the pools.

Most of the plants are prairie
plants scattered about in the
crevices and between the blocks
& ledges of Quartzite. Most of
these plants were stunted.

I saw one *Vitis vulpina*, but it was
just out of reach at Jasper Pool.

The distinctly rock species were:

<i>Opuntia fragilis</i>	<i>Woodia scopulina</i>
<i>Talinum</i>	<i>Polygonum lanse</i> (?)
<i>Sclaginella rupestris</i> fr.	
<i>Agrostis canadensis</i>	

There were also several species usually
found on gravelly, dry ridges, etc., such as

Chrysothrix villosa
Liatris punctata

Lichens are very abundant, but I saw
nothing new. The mosses are fresh
but only ^{one} was beginning to fruit. It had
been very dry, & the recent abundant
rains were too recent.

Lost my large pocket knife.

It drizzled a little several times
during day & evening, & was cloudy
and cool all day.

I found that the Sioux Quarter
area is fenced in, but a gate
at NW corner is wide open, & it is
evident that stock has been in.

The Opuntia grows with curious elongated
joints where crowded.

I then went E. to the old exposure
E. of road. This is now all pasture,
but much of the old floor persists
in the crevices.

Collected a few plants on the
prairie nearby, & a few on the
rocks. Still saw *Opuntia* &
Sclerophylla. *Bouteloua oligostachya*
is very common here, as it is
in the river exposure.

Returned at 6:15 P.M. & had to wait
alone, at a dark station, for the Sioux
Falls train due at 9:55 until
about 11:35! A dream, cheerless
wait! Flashed train with my
flash light.

Reached Sioux Falls after midnight
& put up at the Cataract Hotel.
Packed section material, etc., & retired

at 1:30 AM

Sep. 15, 1921, Thursday.

Was called at 5:45 am. & took the 6:20 Milwaukee train for Westfield.

It is still cloudy & somewhat drizzly, as yesterday.

Mr. E. O. Thoma was at station at Abcon & I got off, & we drove to Joy creek, - he and I only.

It has been raining recently, and fungi were in good condition.

We collected woods plants along the lower (S.E.) part of the valley, then went up on prairie hills.

Collected a lot of plants.

We also followed the valley S. of Joy cr. & found many fungi, especially on cottonwood logs. Also found *Shepherdia*. We found a coyote in a

trap. We were lead to it by occasional pitiful howls. In the evening Thoma returned with young farmer to kill it.

This Joy cr. region is one of the wonderful spots of Iowa. Its wooded valleys set among high loess prairie hills form a remarkable picture, and a walk in the deep wooded valleys gives one the impression of being in an endless forest. The fine clear stream, Joy cr., comes chiefly out of beds of gravel overlying a Cretaceous shale, and underlying Kansan drift. They are evidently Aftonian. In some places they show the O.

Thoron proposes a dam in
lower part of valley & form lake.
This spring creek would certainly
be a fine feeder for a lake.
This should be a state park.

During our walk up the
creek valley, while in the woods,
I also picked up a number of

snails: *Polygyra monodon*
Pyramidulus alternata
Zonitoides alicornus
Bipolaria armifera
" *contrastus*.
all now recalled. See set.

We returned in evening & I sat
up with Thoron until 1:40 A.M.
packing plants.

The day was cloudy, but free
from rain until very evening as
we were coming into Akron.

Sept. 16, 1921, Friday.
I arose at 7³⁰ and mailed
my package of plants.
We drove out at 10¹⁵ A.M. Thoron
& two other brothers. It drizzled
a little as we started, but
later cleared up, and the day
was fine. The wind on the
hills was strong.

We worked both prairie
& forest again, and I added
Bungi, especially.

Near upper part of main
Joy or valley an alluvial
bank of clayey stuff contained
scattered shells. I dug in and
found that they are not
merely surface shells. The
bank is now several feet

above the present creek bed.

I packed a basket of fungi, seeds & acorns, & sent it out from Abson by express.

Jefferson, Neb., lies opposite. The men say that there is there a large Catholic Church & parochial school, and that the public school is reduced to a one room, one teacher insignificant affair.

(This reminds me that at Milford young Dr. Smith told me that my high school com. address at Abson (June 5) did not please the local friends.

A few days after at a parochial school function he sat beside a lady friend of the doctor's.

and criticised my argument that at least during a part of its life every child should attend the public school.

The lady and her family, however, being more liberal Catholics, favored my view!)

On the return to Abson I went at once to Station (after 6 PM) & packed & arranged to leave.

Left for Harwooden at 7:05 ^{on arrival} AM & put up at the Gladstone Hotel. Went to bed early to prepare for leaving at 3:05 AM! (Saw some fine *Mentzelia* on the hill above Jay cr.)

Sep. 17, 1921 Sat.

Left Hawarden at 3:05 AM,
for Miami Valley.

The sky is cloudy, & it
looks like rain.

Between California ju. & Mo.
Valley I noticed Helianthus
Maximilianii in good condition,
flowering. Quite abundant.

Had Colver's jingy take me to
Blairsville. The cost was \$3.50.

I found Lygodesmia rostrata, but
well along, - mostly without lvs. &
in fruit. Found one with
pink flower. Grasses are quite
numerous, & Cassia chamaecrista seems
to overrun everything, leaving the
dunes less bare. Cenchrus is
abundant and troublesome.

Returned a little after 11 AM.
& went up on the prairie ridge
above Smith's old brickyard (the
big cut). I found the flora
far advanced, and everything was
very dry. Aplopappus is abundant
and in fruit & flower. A good
many Lygodesmia juncea
had flowers, - seemingly a
second set. Collected a lot of
plants, some for sections.

Packed the section material &
mailed it at Mo. Valley.

Left Mo. Valley at 3:05 for
Carroll. On the way I
arranged two packages of
plants, and finished the
lot on arrival at Carroll.
Had to hurry to get packages

of plants into the post office.
Left Carroll via C. Great Western for
Botana at 7²⁸ P.M. (due at 7¹³.)

The sand dunes at Blair Bridge
show chiefly grasses & Leguminous
plants. Of the latter *Cassia* them,
is most prevalent. Saw also
Strophostyles paviflorus, *Crotalaria*
sagittata (quite common; in fruit), also
of Compositae: *Helianthus annuus*,
Solidago canadensis, *Lycopodium*
rotundifolium, *Lactuca scariola*, *Lactuca*—

Met Joe & Emma, and family &
drove to Shavers.

Sep. 18, 1921 Sat.

Wrote notes and visited. After noon
we drove to Bowman's Grove
(see map for course). On the
way noted particularly, the following:

Deep ravine—woods
In more. sec. cor. nr. 29 ^{Polk Twp.} Hackberry, Ash,
Elm, green ash, Pignut, Basswood,
Rhus glabra, *Catalpa* ^{rubra},
Ribes gracile, Red Elm, Walnut,
Corylus am., *Rhamnus* ^{lanceolata},
Eurogymna alba, *Q. macrocarpa*,
Prunella
Amelanchier 5-⁶ ft., *Prunella* ^{sp.},
Amelanchier ^{sp.}, *Vitis* ^{sp.},
Pine Elm, *Xanthoxylum* +,
Prunus ^{sp.}, *Prunus* ^{sp.},
Rhus ^{sp.},
^{zila am.}

We drove around Bowman's
Grove, and went in from

The south. Hogs and cattle
have cleared the grove of
smaller plants, but the logs
showed fungi and slime-molds.
I collected some from an *As. Elm*
log and several *Passarid*
logs.

We returned after dark.
The day was clear and
beautiful, and gave little
promise of the rain that
came at night, excepting
for the fact that the wind
was from the east.

Took care of material
and visited a little in
the evening.

Sep. 19, 1921 Monday.
Had planned to drive to
Audubon co., but it was
raining, and rained most
of the forenoon.

I wrote notes most of the
day, and cared for slime-
molds, etc. Wrote also
all evening, putting my
Audubon and Shelby notes
in order.

Sep. 20, 1921 - Tues.
We started for Audubon co.
at 9⁴⁵ AM. The notes on
this trip are in another
note-book.

Oct. 5, 1921, Wed. 9:05
Left for Mayfield at 8:30 AM

A beautiful, clear day, with
a fair breeze from the S.E.

A real frost came last night
(there was on the night before), but
very little damage has yet been done.

2 Pelva Hills, where RR right of
way has been cultivated the
surface rough & weeds have
proliferated.

The drainage ditches both
W. & E. of Midvale have
their embankments, etc. one
mass of noxious weeds - Ragweed
dominant.

Dropped off at Cedar River bridge.
Collected in the Opuntia
sandy opening. Saw here a Pteris

tripolia in fr.

Collected a few plants on the
sandy prairie along RR, E.
of bridge, & cut toward
sandy bank and Aphanogon
bog. Collected parasitic fungi,
section material, etc. In the
sandy woods at Aphanogon
bog I collected Catharinea.
There are three lots: The top
lot (this will be removed) is from
sandy bank above the first
spring; the second is in
open sandy woods at edge
of swamp, beyond Aphanogon
bog, & the 3rd is from wooded
sandbank near the fence
near bog in which Agropyrum
hariflorum grows.

21
16
14
51

12
29
41

I also collected *Lysostoma* on the sandy ridge (old place) & also in sand dunes E. of Shunk Calhoun bog. Collected leaves & acorns of one *Q. velutina* on sandy bank above Shunk Calhoun bog. Also live fr. of Mockernut. Several are in sight.

Collected *Veronica stricta*, *V. angustifolia* and *V. stricta angustifolia* on same sandy bank.

Collected nut on *Panicum virgatum*.

Reached Mayfield at 6 PM & left for Muscatine at 6:40 PM.

Went to Hotel Muscatine.

Oct. 6, 1921 - Thurs.

Left Muscatine for Iowatland at 7:25 AM. Walked to Sand Mound, to private road $\frac{1}{2}$ N. of Co. line, - into Louisa. On sandy, grassy slope S. of this half mile line is now largely covered with *Artisania canadensis* (2) (see spec.) It has either been pastured or cultivated.

Almost everything is dry & gone. Few asters.

I went E. to the large sand-grass patch, & then worked the slope (in Louisa co.) of the sand mound.

I found my *Phytolacca* mostly in fruit (few flowering) & a number of the greener plants showed a karwins

fungus on calyx and leaves.
In many cases the fungus
erupted first on the calyx, the
others being still under epidermis.
Found a few *Trichos cylindricus*
in fr.; *Fraxichia*, *L. scariosa*,
Kulpa, - in fact most things
were in fruit.

I walked back to Fairland,
collecting *Helianthus petiolaris* (bottle
fls. & fr.) and *Agropyron Smithii*
(old fr.).

After I waited about for a
time a truck-driver took me
to Muscatine (4⁴⁵ PM). I left
at 7⁴⁵ for Davenport, & thence
to Iowa City.

Suggestions.

Many plants make provision for growth by shedding leaves, & the stem then protected?

Lygodesmia

Cycloloma

Aster multiflorus

Lepidium apetalum.

Stratified plants, ^{of species} not belonging to a xerophytic area may appear upon it here & there. - some protection.

Or, during very favorable seasons, same thing occurs.

Problems - those which have to do
with factors which influence
plant growth.
Cultivated plants influenced as
native plants.

Prairie - -
Fires - openings -

Q. v. depressa

Dalea cuneata

" *alopecurides*

Chrysopsis

Grindelia

Cypripedium

Cacalia

Iris

Habenaria

Sporobolus cryptandrus

"
Panicum

"
Isanthus

Crotalaria

Yucca

Mentzelia

Oxytropis

Astragalus caryocarpus

"
Senecio

Opuntia

Woodsonia

Polygonum Douglasii

" *tenue*

Lycopodium gracile

" *rostrata*

Agave

Gerardia aspera

" *auriculata*

Houstonia angustifolia

Brauneria

Aristida basilaris

Ranunculus rhomboides

Sep. 9, 1921 - Lyle to Mason City - (no tax) 1.06
 " " " " with tax 1.14
 Mason City - stamps⁵⁰ RR. to Clear Lake⁷⁰ 1.20

Sep. 10, 1921 - Mason City & return .70
 tooth-brush & paste .90
 " " " " .70

Sep. 11, 1921 - Mason City & return
 carfare²⁰ lunch & breakfast¹² gum¹⁰ .92
 " " " " 1.50 soda¹⁰ 1.60
 Box candy

Sep. 12, 1921 - carfare³⁵ lunch⁵¹ carfare²⁰ 1.06
 2 baskets³⁰ fruit^{1.05} soda²⁰ 1.55
 Parcel¹⁵ Twine⁴⁰ bus to Clear Lake²⁵ .80

Sep. 13, 1921 - RR. fare Clear Lake to Milford^(no tax) 3.75
 Dinner Milford⁵⁰ - beer²⁵ gum¹⁵ .40

RR. to Spirit Lake - (no tax) 27

RR. to Odeyechan (no tax) .82

Supper " .35

Sep. 14 - Room⁷⁵ breakfast³⁵ lunch¹⁰ (2 meals) 1.70

RR. to Granite 2.12

RR. to Sioux Falls .48

Taxi " 1.50

Sep. 15 - Breakfast¹⁵ Taxi⁵⁰ Cataract Hotel^{1.75} 2.40

RR. to Westfield (no tax) 2.31

Sep. 16 - Postage, parcels, plants, etc.⁵⁰ .37

Lunch³⁰ basket²⁰ Thorson child⁵⁰ 1.00

Lunch²⁵ express on basket⁶² gum¹⁰ .97

RR. to Harwarden (no tax) .47

Taxi - " .50

Sep. 17 - Hotel Gladstone 1.50

RR. to Mirror Valley (no tax) 4.30

RR. to Carroll (no tax) 2.56

Dinner at Restaurant⁴⁵ , sodas²⁸ papers¹⁰ .83

E. C. Colver, living to Blair bridge 3.50
 Lunch¹⁵ , mail¹⁸ + 12. .45

55

29
12
41
36
28
123
1476

2.94
1.48
1.46

Schmidt's restaurant

RR. Carroll to Portina (Chd. fare no tax) .81

Postage - Carroll (plants)²⁵ lunch²⁵ .40

Candy for children⁷⁵ soda¹⁰ .85

Bayfield, etc. Oct. 5, 1921

RR. to Bayfield. (no tax) \$1.19

Lunch (Dr. G.) .45

RR. to Muscatine .28

Oct. 6 - Hotel Muscatine, room 1.75

Breakfast³⁵ lunch⁵⁰⁽²⁾ .85

RR. to Fruitland .23

RR. to Muscatine .23

RR. to Davenport (no tax) .99

RR. to Iowa City (" ") 1.95

Taxi - Iowa City .50

Brauneria — Mo. Valley 9/17
Artemisia frigida Granite 9/14 1921
Acerates
Agropyron tenerum
Agrostis alba var.
Allium stellatum Milford 9/13/1921
Andropogon scoparius
" surcatus Mo. Valley 9/17
Anemone patens var. Big Blough 9/11/1921
Asclepias sullivanti Milford 9/13/1921
" verticillata " 9/13/1921
Aplopappus Joy or 9/16 Mo. Valley 9/17
Aster sturnicoides Granite 9/14
" oblongifolius — Big Blough 9/11/1921
Bouteloua hirsuta Joy or 9/16
" curtispicula Granite 9/14 1921
" oligostachya Granite 9/14 1921
Campanula rotundifolia — Harper 9/8/1911
Carex
Ceanothus ovatus pubescens Mo. Valley 9/17
" " — McGregor, 9/7 1921
Cissampium canescens Granite 9/14
Coreopsis palmata
Corydalis
Crotalaria Blair Co. 9/17

Houstonia aurea? — Mo. Valley 9/17
Chrysopsis? (broader lvs) Granite 9/14
Chrysopsis villosa Granite 9/14
Dalea — Vine Mo. Valley
Delphinium
"
Elymus
Erythronium mesochoreum
Euphorbia — mainly erect — Blair Co. 9/17
Euphorbia marginata Joy or 9/15
" heterophylla Blair Co. 9/17
Galium boreale
Gaylussacia resinosa — McGregor, Sep. 7, 1921
Gentiana alba
" andrewsii
" Galunula Granite 9/14
" Joy or 9/16
Geocodia aspera Granite 9/14
Helianthus annuus Mo. Valley 9/17
Helianthus Maximilianii Milford, 9/13/1921
Isanthus caeruleus — Big Blough — 9/11/1921
Liatris cyneboraceae
" punctata Granite 9/14/1921
" squarrosa
Lespedeza leptostachya Milford 9/13/1921
Lathyrus venosus
" palustris Milford, 9/13/1921
Liatris punctata Mo. Valley 9/17

Lygodesmia juncea Mo. Valley 9/17
" *rotunda* Blair Cr. 9/17.

Lepachys columnaris Granite 9/14

Lilium philadelphicum

Linum

Lithospermum angustifolium - Big Slough 9/11, 1921

Lobelia

Oenothera serotina Big Slough 9/11, 1921

Oenothera occidentalis - Big Slough 9/11, 1921

Oxytropis Lamberti Granite 9/14 9/16

Panicum

"
Pentstemon *gracilis?* Granite 9/14

Physalis

Poa

Polygala

Potentilla tridentata Hesper 9/8, 1921

"

"

Prunella

Prunella humilis - Hesper 9/8, 1921

Symphoricarpos occidentalis Mo. Valley 9/17

Polygonum Douglasii - Hesper, 9/8, 1921

" *tenue* - Hesper, 9/8, 1921.

Ranunculus fascicularis - Big Slough, 9/11, 1921

Solidago speciosa v. *arguta* Milford 9/13, 1921

" *missouriensis* Milford 9/13, 1921

" *laucolata* Milford 9/13, 1921

Sorghastrum nutans Mo. Valley 9/17

Spartina

Spiranthes - Big Slough - 9/11, 1921

Lepidosia

Talinum - Granite 9/14, 1921

Verbena

"

Veronica noveboracensis Mo. Valley 9/17

Vicia

"

Viola

Wormsia scopulina Granite 9/14

Zygadenus

Grass 1 - Hesper - A.P. SS - Large, sharp-pointed

" 2 - " " Fine. also Mo. Valley 9/17

Rush 3 - " " - Juven.

Grass 4 - (Fine topped) - Big Slough - 9/11, 1921

Grass 5 (coarse) - Granite 9/14

" 6 (fine, long hawks) Blair Cr. 9/17

" 7 - like fine *Pharbitis* crystal 9/17

McGregor School of Wild Life
Program - 1921

Sunday, Aug. 7.

2⁰⁰ PM. - Address: Rev. A. L. Murray, ^{cedar} ^{Rapids}
^{response to welcome by} ^{Wagon Lighter} ^{Shimukh}
8⁰⁰ PM. - Address: Prof. S. W. Strobey, ^{Nature's Fascinating} ^{Appeal.}

Dr. H. C. Oberholser, "Economic Value of Bird Life."

Monday, Aug. 8.

10:30 - Address: Dean Kay.

2:00 - General Excursion to Lookout.

8:00 -

Tues., Aug. 9 - Government Day,

^{R. L.} Oberholser, ^{Fairport, Ia.} Barney, ^{Director}, Harlan, Kay
and McDonald talked.

8:00 - Film - Niagara Falls.

Wed., Aug. 10.

9:30 - Kayes, Shimukh (Oak object lesson)

2:00 - Pike's Peak, all.

8:00 - Strobey, Weeks.

Thurs., Aug. 11.

A. M. & PM. Kodak day.

8:00 - Oberholser,

Fri., Aug. 12

9:30 - Weeks, Kayes.

2:00 - Special Excursions.

8:00 - Strobey, ^{Fungi} Shimukh (Possible work here. - Illust.)

Sat., Aug. 13.

8:30 - Trip to Clayton.

3:00 PM. - Oberholser, Kayes.

8:00 PM. - Bennett. McGregor etc

Sun. Aug. 14

12:30 - Picnic Luncheon.

1:30 - "Kay" the Contribution of Geology to
Religious Thought.

8:00 - Shirling - Trees, shrubs, etc

Mon. Aug. 15.

9:30 - Kay.

2:00 - Pike's Peak.

8:00 - Shimukh, Kay. ^{Plant Habitats} ^{Antiquity of Man.}

Tues., Aug. 16.

9:30 - Weeks, Shimukh (Common Names)

2:00 - McDonald, Shimukh (Composites)

8:00 - Shirling, Bennett.

Wednesday, Aug. 17.

9:30 - Weeks, Keyes.

2:00 - Special excursions

8:00 - Oberholser, Shimek (Prairies)

Thursday, Aug. 18.

9:30 - Oberholser, Weeks.

2:00 - Special excursions.

8:00 - Keyes. — Business Men Dinner

Friday, Aug. 19

9:30 - Round-up.

2:00 - Special excursions.

Evening - Community picnic.

Mounds at Ohobaji. —

1 - On the ridge in the Big Loop of the Little Sioux.

2 - At Arnold's Park - E. of road across Harmons - Mr. Hazard's garden.

3 - On point, or peninsula, on E. side between Middle & Lower San Lakes.

4 - At Orleans. (Potter)

Prairie openings above No. Mc Gregor.

Amorpha canescens
Achillea millefolium
Asclepias

Hill No. 6 No. Mc Gregor.

<i>Acer saccharum</i>	<i>Populus tremuloides</i>
<i>Amorpha canescens</i>	<i>Prunus virginiana</i>
<i>Betula alba</i> v. <i>papyrifera</i>	<i>Praderia quinquefolia</i>
<i>Carya ovata</i>	<i>Physocarpus opulifolius</i> ^{v. <i>var.</i>}
" <i>cordiformis</i>	<i>Quercus rubra</i>
<i>Corylus americana</i>	" <i>alba</i>
<i>Cornus paniculata</i>	" <i>Muhlenbergii</i>
<i>Crataegus mollis</i>	" <i>macrocarpa</i>
" <i>punctata</i>	<i>Ribes cynosbati</i>
" <i>"tomentosa"</i>	" <i>gracile</i>
<i>Fraxinus penn.</i> v. <i>lanceolata</i>	<i>Rhus glabra</i>
" <i>nigra</i>	" <i>typhina</i>
<i>Hydrangea arborescens</i>	" <i>toxicodendron</i>
<i>Juglans cinerea</i>	<i>Rubus idaeus</i> v. <i>aculeatissimus</i>
" <i>nigra</i>	" <i>occidentalis</i>
<i>Juniperus virginiana</i>	" <i>allegheniensis</i>
<i>Lonicera sullivanti</i>	<i>Salix discolor</i>
<i>Menispermum canadense</i>	<i>Sambucus</i>
<i>Ostrya virginiana</i>	<i>Lilia americana</i>
	<i>Ulmus fulva</i>
	<i>Viburnum dentatum</i>
	<i>Vitis vulpina</i>
	<i>Xanthoxylum americanum</i>

Low ground along river 8/4/1907

Salix longifolia
 " nigra
 " amygdaloides
 Populus deltoides
 Acer saccharinum
 " negundo
 Sambucus canadensis
 Amorphia fruticosa

1920.

Plants on St. Peter I. S. opening on right

Andropogon furcatus	Gerardia aspera
" scoparius	Hieracium canadense.
Aster oblongifolius	Helianthus tuberosa
Arabis canadensis	Helopsis scabra
Agrostis alba var.	Lithospermum canescens
Asclepias syriaca	Lepachys pinnata
" verticillata	Lespedeza capitata
Asparagus officinale	Lactuca canadensis
Ambrosia artemisiifolia	Liatris scariosa
Apocynum androsaemifolium	Melilotus alba
Bontelona curtipendula	Petalostemum purpureum
Comandra umbellata	Phlox pilosa
Desmodium canadense	Pycnanthemum
Eupatorium altissimum	Physalis pubescens
Euphorbia corollata	Quercus macrocarpa
Elymus canadensis	" Michauxiana
Erigeron ramosus	Rosa
Galium boreale	Rhus glabra
	Sorghastrum nutans

mm.	inches	right
Zinc -	11	1
Wed. -	11	1
Th. -	1	3
	<u>6</u>	

Solidago nemoralis

Steironema ciliata

Sisymbrium (lost)
canescens

Vitis vulpina

Viola papilionacea?

Geranium virginica

L. Blizard - wants formula
for killing Canadian Thistle

Expenses to Dyer'sville, Michigan, etc.

Sep. 3 - Parcel post to Clayton (post)	.14
" " " Stacyville	.15
Express (air mail box) to McGowan	1.18
" (cash) to Mason City	.61
Taxi, Iowa City	.35
R.R. to Cedar Rapids (no tax)	.96
Lunch "	.45
R.R. to Delaware (no tax)	2.09
R.R. Delaware to Dyer'sville (no tax)	.42
Sep. 4 - Dyer'sville House - room	1.25
Wesley Wilder drive to Stacyville	3.00
Sep. 5 - "Hotel" - Miller's 2 meals & bed	1.00
R.R. Iowa City to Clayton (60c)	.65
Parcel post	.47
Lunch, Clayton	.10
Boys, Clayton	.33
R.R. Clayton to McGowan	.15
Sep. 6 - Lunch 35c sodas 15c	.50
Pressing miss 75c Barber 25c	1.00
Papers 10c	.10
Sep. 7 - Lunch 40c, sodas 15c	.55
Repair shoes 60c, twine 10c	.70
Parcel post (2)	.48
Sep. 8 - Dyer's Hotel, 3 nights & 6 meals	7.50
Express, Parcel to L. Blizard	.55
R.R. to Decorah (no tax)	2.03
Wm. Hocker, dinner to Hoyer	5.00
Lunch -	.25
R.R. to Charles City (no tax)	2.16
Transfer 25c " "	.55
R.R. to Stacyville	1.45

